



PATENT  
Customer No. 22,852  
Attorney Docket No. 06912.0188-00000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application )  
of U.S. Patent No. 6,036,226 )  
Inventors: Steven J. BROWN, et al. )  
Application No.: 10/086,920 ) Group Art Unit: 3611  
Reissue Filing Date: March 1, 2002 ) Examiner in prior application: A. Ririe  
For: INFLATOR CAPABLE OF )  
MODULATION AIR BAG INFLATION )  
RATE IN A VEHICLE OCCUPANT )  
RESTRAINT APPARATUS )

**ATTN: BOX REISSUE**  
Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**REISSUE DECLARATION UNDER 37 C.F.R. § 1.175**

We, Steven Joseph Brown, Larry Stefan Ingram, Neale Arthur Messina and Marek Tarczynski, all citizens of the United States, with residences and post office addresses as listed below, do hereby state and declare as follows:

1. We believe we are the original joint inventors of the subject matter which is described and claimed in United States Patent No. 6,036,226, granted on March 14, 2000, and for which a reissue patent is sought on the invention entitled, "INFLATOR CAPABLE OF MODULATION AIR BAG INFLATION RATE IN A VEHICLE OCCUPANT RESTRAINT APPARATUS."

2. We hereby claim the benefit under 35 U.S.C. § 119(e) of provisional patent application no. 60/037,234, filed in the United States on February 3, 1997.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

3. We hereby state that we have reviewed and understand the contents of the above-identified specification, including the original patent claims, and the claims in the Preliminary Amendment filed with the reissue application on March 1, 2002.

4. We acknowledge the duty to disclose information that is material to the examination of this reissue application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

5. We believe U.S. Patent No. 6,036,226 to be, through error and without deceptive intent, at least partly inoperative by reason of our claiming less than we had a right to claim in the patent.

6. An error, which is a statutory basis for reissue, is that we unnecessarily limited the scope of patent protection to which we are entitled. Claims 1-38 do not cover the full breadth of our disclosed invention, and we erred by not pursuing during the original prosecution additional, broader claims, such as those filed in the Preliminary Amendment included with this application. For example, Applicants' patent protection need not be limited to an apparatus including a sensor, as required by independent claims 1 and 32, and Applicants' patent protection need not be limited to an apparatus including a housing as claimed in independent claim 14. These elements are not required in new claim 39, for example.

7. The above-described error and all other errors corrected in this reissue application arose without any deceptive intent.

8. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

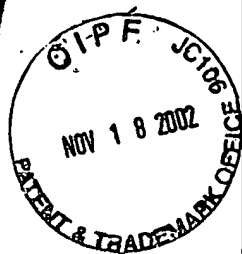
statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First Inventor <b>Steven Joseph Brown</b>	Inventor's Signature <i>Steven Joseph Brown</i>	Date Nov. 7, 2002
Residence North Granby, Connecticut		Citizenship U.S.A.
Post Office Address 79 Mountain Road, North Granby, CT 06060		
Full Name of Second Inventor <b>Larry Stefan Ingram</b>	Inventor's Signature	Date
Residence Lawrenceville, New Jersey 08648		Citizenship U.S.A.
Post Office Address 1 Dix Lane, Lawrenceville, New Jersey 08648		
Full Name of Third Inventor <b>Neale Arthur Messina</b>	Inventor's Signature	Date
Residence Philadelphia, Pennsylvania 19103		Citizenship U.S.A.
Post Office Address 2310 Locust Street, Philadelphia, Pennsylvania 19103		
Full Name of Fourth Inventor <b>Marek Tarczynski</b>	Inventor's Signature	Date
Residence Princeton, New Jersey 08540		Citizenship U.S.A.
Post Office Address 68 Wiggins Street, Princeton, New Jersey 08540		

276150\_1

FINNEGAN  
ENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com



PATENT  
Customer No. 22,852  
Attorney Docket No. 06912.0188-00000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application )  
of U.S. Patent No. 6,036,226 )  
Inventors: Steven J. BROWN, et al. )  
Application No.: 10/086,920 ) Group Art Unit: 3611  
Reissue Filing Date: March 1, 2002 ) Examiner in prior application: A. Ririe  
For: INFLATOR CAPABLE OF )  
MODULATION AIR BAG INFLATION )  
RATE IN A VEHICLE OCCUPANT )  
RESTRAINT APPARATUS )

ATTN: BOX REISSUE  
Assistant Commissioner for Patents  
Washington, DC 20231

RECEIVED  
NOV 20 2002  
OFFICE OF PETITIONS

Sir:

**REISSUE DECLARATION UNDER 37 C.F.R. § 1.175**

We, Steven Joseph Brown, Larry Stefan Ingram, Neale Arthur Messina and Marek Tarczynski, all citizens of the United States, with residences and post office addresses as listed below, do hereby state and declare as follows:

1. We believe we are the original joint inventors of the subject matter which is described and claimed in United States Patent No. 6,036,226, granted on March 14, 2000, and for which a reissue patent is sought on the invention entitled, "INFLATOR CAPABLE OF MODULATION AIR BAG INFLATION RATE IN A VEHICLE OCCUPANT RESTRAINT APPARATUS."

2. We hereby claim the benefit under 35 U.S.C. § 119(e) of provisional patent application no. 60/037,234, filed in the United States on February 3, 1997.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

3. We hereby state that we have reviewed and understand the contents of the above-identified specification, including the original patent claims, and the claims in the Preliminary Amendment filed with the reissue application on March 1, 2002.

4. We acknowledge the duty to disclose information that is material to the examination of this reissue application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

5. We believe U.S. Patent No. 6,036,226 to be, through error and without deceptive intent, at least partly inoperative by reason of our claiming less than we had a right to claim in the patent.

6. An error, which is a statutory basis for reissue, is that we unnecessarily limited the scope of patent protection to which we are entitled. Claims 1-38 do not cover the full breadth of our disclosed invention, and we erred by not pursuing during the original prosecution additional, broader claims, such as those filed in the Preliminary Amendment included with this application. For example, Applicants' patent protection need not be limited to an apparatus including a sensor, as required by independent claims 1 and 32, and Applicants' patent protection need not be limited to an apparatus including a housing as claimed in independent claim 14. These elements are not required in new claim 39, for example.

7. The above-described error and all other errors corrected in this reissue application arose without any deceptive intent.

8. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First Inventor <b>Steven Joseph Brown</b>	Inventor's Signature	Date
Residence North Granby, Connecticut		Citizenship U.S.A.
Post Office Address 79 Mountain Road, North Granby, CT 06060		
Full Name of Second Inventor <b>Larry Stefan Ingram</b>	Inventor's Signature <i>Larry Stefan Ingram</i>	Date 11-05-2002
Residence Lawrenceville, New Jersey 08648		Citizenship U.S.A.
Post Office Address 1 Dix Lane, Lawrenceville, New Jersey 08648		
Full Name of Third Inventor <b>Neale Arthur Messina</b>	Inventor's Signature <i>Neale Messina</i>	Date 11-05-2002
Residence <del>Philadelphia, Pennsylvania 19103</del> <i>Newtown, PA 18940</i>		Citizenship U.S.A.
Post Office Address <i>639 Lafayette St., Newtown, PA 18940</i> <del>2310 Locust Street, Philadelphia, Pennsylvania 19103</del>		
Full Name of Fourth Inventor <b>Marek Tarczynski</b>	Inventor's Signature	Date
Residence Princeton, New Jersey 08540		Citizenship U.S.A.
Post Office Address 68 Wiggins Street, Princeton, New Jersey 08540		

276150\_1

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com



#6

PATENT

Customer No. 22,852

Attorney Docket No. 06912.0188-00000

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application )  
of U.S. Patent No. 6,036,226 )  
Inventors: Steven J. BROWN, et al. )  
Application No.: 10/086,920 ) Group Art Unit: 3611  
Reissue Filing Date: March 1, 2002 ) Examiner in prior application: A. Ririe  
For: INFLATOR CAPABLE OF MODULATION )  
AIR BAG INFLATION RATE IN A VEHICLE )  
OCCUPANT RESTRAINT APPARATUS )

## ATTN: BOX REISSUE

Assistant Commissioner for Patents  
Washington, DC 20231

CONSENT OF ASSIGNEE, CERTIFICATE UNDER 37 C.F.R. § 3.73(b), OFFER TO  
SURRENDER ORIGINAL PATENT & GRANT OF POWER OF ATTORNEY

In accordance with 37 C.F.R. § 1.172(a), General Dynamics Armament and Technical Products, Inc. (f/n/a General Dynamics Armament Systems, Inc.), consents to the filing of the above-identified reissue application and, in accordance with 37 C.F.R. § 3.73(b), certifies that it is the assignee of the entire right, title, and interest in the above-identified patent by virtue of an assignment from the inventors of the patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel No. 8928, Frame No. 0243.

General Dynamics Armament and Technical Products, Inc., pursuant to 37 C.F.R. § 1.178, also hereby offers to surrender the original patent.

I hereby declare that I am empowered to sign this document on behalf of General Dynamics Armament and Technical Products, Inc., that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent or any further patent issuing thereon.

The undersigned hereby grants its power of attorney to **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.**, Customer No. 22,852, Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilley, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewris, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; Roger D. Taylor, Reg. No. 28,992; John C. Paul, Reg. No. 30,413; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgujian, Reg. No. 31,744; J. Michael Jakes, Reg. No. 32,824; Thomas W. Banks, Reg. No. 32,719; Christopher P. Isaac, Reg. No. 32,616; Bryan C. Diner, Reg. No. 32,409; M. Paul Barker, Reg. No. 32,013; Andrew Chanhon Sonu, Reg. No. 33,457; David S. Forman, Reg. No. 33,694; Vincent P. Kovalick, Reg. No. 32,867; James W. Edmondson, Reg. No. 33,871; Michael R. McGurk, Reg. No. 32,045; Joann M. Neth, Reg. No. 36,363; Gerson S. Panitch, Reg. No. 33,751; Cheri M. Taylor, Reg. No. 33,216; Charles E. Van Horn, Reg. No. 40,266; Linda A. Wadler, Reg. No. 33,218; Jeffrey A. Berkowitz, Reg. No. 36,743; Michael R. Kelly, Reg. No. 33,921; James B. Monroe, Reg. No. 33,971; Doris Johnson Hines, Reg. No. 34,629; Allen R. Jensen, Reg. No. 28,224; Lori Ann Johnson, Reg. No. 34,498; David A. Manspeizer, Reg. No. 37,540; John Rissman, Reg. No. 33,764; M. Lawrence Oliverio, Reg. No. 30,915; Therese Hendricks, Reg. No. 30,389; Leslie I. Bookoff, Reg. No. 38,084; Michele C. Bosch, Reg. No. 40,524; Michael J. Flibbert, Reg. No. 33,234; Scott A. Herbst, Reg. No. 35,189; Leslie A. McDonnell, Reg. No. 34,872; Thalia V. Warnement, Reg. No. 39,064; and Roland G. McAndrews, Reg. No. 41,450, both jointly and separately as their attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and to receive the Letters Patent.

Please send all future correspondence concerning this application to Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. at the following address:

**Finnegan, Henderson, Farabow,  
Garrett & Dunner, L.L.P.  
1300 I Street, N.W.  
Washington, D.C. 20005-3315**

Date: November 15, 2002

Name: William W. Davis

Title: Assistant Secretary

Signature: *William W. Davis*

305856\_1

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com